in the wall thickness of each electrocast product, as well as, bending and variation in the cross-sectional roundness thereof. The method of the present invention employs, in place of air agitation or the like, moving of the wires and the electrocasting solution, as necessary, to correct variation in the diameter among the products by making use of an ampere hour meter, for example, where leading current is stopped automatically at the stage that the ampere hour meter, reading the current for electrocasting, designates an appointed value.

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Page 6, line 21 - Page 7, line 3, cancel the paragraph, and in place thereof, insert the following new paragraph:

The apparatus is composed essentially of an electrocasting solution 3, positive electrodes 4, holding jigs 5, a negative electrode 8, an electrocasting tank 10, a chain gear driving motor 11, a belt 12, a holding jig driving motor 13, chain gears 14, a chain 15, and ampere hour meter 24. The electrocasting solution 3 is charged into the electrocasting tank 10 and is warmed, filtered and agitated. A direct electric current is sent across the positive electrodes 4 and the negative

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electrode 8, and the rotation of the chain gear driving motor 11 is transmitted to the chain gears 14 through the belt 12 to enable the chain 15 to circulate the holding jigs, so that the holding jigs 5 can be autorotated on the axes thereof respectively by the holding jig driving motor 13 and the belt 12.

Page 9, line 30 - Page 10, line 9, cancel the paragraph, and in place thereof, insert the following new paragraph:

carry out electrocasting with a current density of about 6 A/dm<sup>2</sup> for 11 hours until ampere hour meter designates an appointed value, and at an orbital speed of 5 rpm and an autorotation speed of 100 rpm and manufacture 22 pieces of rod-shaped nickel electrocast products having an average diameter of about 1.5 mm and an average length of 400 mm using the wire and the nickel balls as a negative electrode and a positive electrode, respectively.

electrocast products was within the range of ± 0.2

electrocasting apparatus with the coupling 21 to

Then, each holding jig 5 was connected to the

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perfectly circular cross sections.

Variation in the diameter among these 22

mm, and they were free from bending and had

Page 10, line 29 - Page 11, line 14, cancel the paragraph, and in place thereof, insert the following new paragraph:

Meanwhile, the apparatus in the second embodiment is composed essentially of an electrocasting solution, 3, a positive electrode 4, holding jigs 5, negative electrodes 8, an electrocasting tank 10, a holding jig rotating motor 13, a belt 12, an ampere hour meter 24, pulleys 25 and a jig fixing structure 26. electrocasting solution 3 was poured into the electrocasting tank 10, warmed, filtered and In this state, a direct current was charged, in a well-controlled manner, across the positive electrode 4 and the negative electrodes 8 connected to all of the holding jigs 5, as necessary, together with the ampere hour meter 24, respectively. Thus, the rotation of the holding jig rotating motor 13 was transmitted through the belt 12 and the pulleys 25 to the holding jigs 5 connected to the jig fixing structure 26 to effect electrocasting under autorotation of the holding jigs 5; whereas when a predetermined ampere hour value is achieved, the electrocasting treatment is stopped.

Page 11, line 30 - Page 12, line 3, cancel the paragraph, and in place thereof, insert the following new paragraph:

In constitution of the second embodiment, it is desirable that an ampere hour meter 24 is used per holding jig 5 and that a small-size rectifier is used per holding jig 5 so as to facilitate current control. However, the present invention is not necessarily limited to this constitution, but one large-size rectifier may be used to send electric current to many holding jigs 5.

Page 12, line 22 - Page 13, line 8, cancel the paragraphs, and in place thereof, insert the following new paragraphs:

Then, each holding jig 5 was connected to the electrocasting apparatus with the coupling 21, and the autorotation speed of the jig 5 was set to 70 rpm. The wire and the nickel balls were used as the negative electrodes and as the positive electrode respectively, and a small-size ampere hour meter was attached to each of 22 holding jigs 5.

When electrocasting treatment was carried out according to a technique in which one rectifier (max. 40A) with a current density of about 2 to 6

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A/dm² is used, and electrocasting is terminated automatically at the state of ampere hour value of 4.5 A·Hr (16200 coulomb), the treatment completed in about 9 ± 0.5 hours to give 22 pieces of rodshaped nickel electrocast products having an average diameter of about 1.5 mm and an average length of 400 mm. There was substantially no variation in the diameter among these 22 electrocast products, and they were free from biased thickness and bending and had perfectly circular cross sections.

Page 13, line 26 - Page 14, line 13, cancel the paragraph, and in place thereof, insert the following new paragraph:

structure 26, a holding rod 16, a free rotating section 17, a pulley 27, a belt 12, an electrical insulating section 19, a negative electrode spring 28, a coupling 21, a holding jig 5, a spring 7, a wire 9, a clip 22 and ampere hour meter 24. The

holding rod 16 is welded to the circular jig
fixing structure 26. The holding jig 5 is allowed
to undergo free rotation by the free rotating

Meanwhile, the apparatus in the third

embodiment is composed essentially of a jig fixing

section 17. The rotation of the belt 12 is

further to autorotate the holding jig 5 through the electrical insulating section 19 and the coupling 21. The holding jig 5 holds a wire 9 under tension between the clip 22 and the spring 7. The electrical insulating section 19 is brought into press contact with the negative electrode spring 28 to charge a negative current only to the lower side of the section 19 to effect electrocasting with the electrocasting solution 23 being at the liquid level as shown in Fig. 4.

transmitted to the pulley 27 to rotate it and

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Page 15, lines 3 - 9, cancel the paragraph, and in place thereof, insert the following new paragraph:

The electrocasting treatment is carried out in the apparatus as described above by supplying a direct current with a current density of 4 to 8 A/dm² for 10 to 20 hours, such that current is stopped automatically at the stage that ampere hour meter, reading current for electrocasting, designates an appointed value, to effect thickening to a rod having a diameter of about 0.8 to 2.8 mm. The thus obtained rod product is taken out from the electrocasting tank, washed well with water and dried.

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